

DPEKA/jmb/jb
November 15, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

H. William Harris, Jr., David R. Russell, Jacqueline Nearing and Marlies Betka

Application No.: 10/626,115 Group Art Unit: 3643

Filed: July 24, 2003 Examiner: Not yet assigned

Confirmation No.: 9402

Title: Methods for Raising Pre-Adult Anadromous Fish

CERTIFICATE OF MAILING OR TRANSMISSION

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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)

under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

under 37 CFR 1.97(c) together with either:

a Statement under 37 CFR 1.97(e), as checked below, or

a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97(d) together with:

a Statement under 37 CFR 1.97(e), as checked below, and

a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.
(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- [] Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- [] No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- [] Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

[X] Enclosed herewith is form PTO-1449:

- [] Copies of the cited references are enclosed.

[] Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.

[X] None of the cited references are enclosed because they have been cited by the Examiner or entered in prior applications, U.S. Application No. 09/687,477, filed October 12, 2000 (now U.S. Issued Patent No. 6,463,883B1, Issued: October 15, 2002) and U.S. Application No. 10/270,876, filed October 11, 2002 (now U.S. Issued Patent No. 6,655,318B2, Issued: December 2, 2003), to which priority under 35 U.S.C. 120 is claimed. The earlier applications contain copies of the cited references.

[X] The listed references (AM, AN, AI, AP, AT18 and AR14) were cited in the enclosed International Search Report in a counterpart foreign application.

[] The "concise explanation" requirement (non-English references) for reference(s) [] under 37 CFR 1.98(a)(3) is satisfied by:

- [] the explanation provided on the attached sheet.
- [] the explanation provided in the Specification.
- [] submission of the enclosed International Search Report.
- [] submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
- [] the enclosed English language abstract.

[] Applicant requests that the following non-published pending applications be considered:

Examiner's
Initials

____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
 ____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
 ____ U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []

Examiner _____

Date _____

[] A copy of each above-cited application, including the current claims, is enclosed.
 [] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

REMARKS

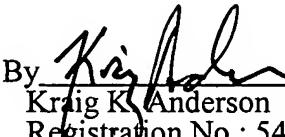
Please note that reference AR14 to Gatlin, *et al.* was listed as Delbert, *et al.* in the related International Search Report (a copy of which is enclosed). Applicants respectfully request that this correction be noted.

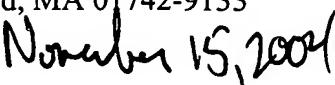
Method of payment:

[] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
 [] Please charge Deposit Account 08-0380 in the amount of \$[]. A copy of this Statement is enclosed.
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Respectfully submitted,

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Concord, MA 01742-9133
 Dated: 

PTO-1449 REPRODUCED			ATTORNEY DOCKET NO. 2213.1004-012	APPLICATION NO. 10/626,115	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION			FIRST NAMED INVENTOR H. William Harris, Jr.	FILING DATE July 24, 2003	
November 15, 2004 (Use several sheets if necessary)			EXAMINER Not yet assigned	CONFIRMATION NO. 9402	GROUP 3643

O I P E S C I S
P A T E N T & T R A D E M A R K O F F I C E

U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	
	AA	5,763,569	06/09/1998	Brown <i>et al.</i>	
	AB	5,962,314	10/05/1999	Brown <i>et al.</i>	
	AC	5,981,599	11/09/1999	Moe <i>et al.</i>	
	AD	5,858,684	01/12/1999	Nemeth <i>et al.</i>	
	AE	6,001,884	12/14/1999	Nemeth <i>et al.</i>	
	AF	5,351,651	10/04/1994	Ushio <i>et al.</i>	
	AG	4,703,008	10/27/1987	Lin	
	AH	5,688,938	11/18/1997	Brown <i>et al.</i>	
	AI	3,777,709	12/11/1973	Anderson <i>et al.</i>	
	AJ	6,016,770	01/25/2000	Fisher	
	AK	5,128,153	07/07/1992	Axelrod	
	AA2	3,406,662	10/22/1968	Vik <i>et al.</i>	
	AB2				
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	AH2				
	AI2				
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	AC3				

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FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
	AL	WO 98/15627	04/16/1998	Univ. of Southampton; Royal Free Hospital School of Medicine	
	AM	WO 97/35977	10/02/1997	Brigham & Womens Hospital	
	AN	EP 0801904 A1	04/17/1997	Rhode Island Education	
	AO	Verified Translation of SU 1784152	12/30/1992	N.M. Knipovich Polar Scientific Research Institute of Fishing and Oceanography	X
	AP	WO 00/64274	04/20/1999	Winberg Svante	

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Nearing, J, <i>et al.</i> , "Cloning and expression of a homologue of the calcium (Ca ²⁺)/polyvalent cation receptor (CaR) protein that acts as a magnesium (Mg ²⁺) sensor in dogfish shark (<i>Squalus acanthias</i>) kidney." <i>Journal of The American Society of Nephrology</i> , 8: 40A. (From ASN Program and Abstracts, 1997, Abstract No. A0194)(1997).
AS	Sands, J. M., <i>et al.</i> , "Apical Extracellular Calcium/Polyvalent Cation-Sensing Receptor Regulates Vasopressin-Elicited Water Permeability in Rat Kidney Inner Medullary Collecting Duct," <i>J Clinical Investigation</i> 99(6): 1399-1405 (1997).
AT	Ward, D. T., <i>et al.</i> , "Disulfide-bonds in the Extracellular Calcium-polyvalent Cation Sensing Receptor Mediate Dimer Formation and its Response to Divalent Cations in Vitro," <i>J. Biol. Chem.</i> 273: 14476-14483 (1998).
AU	Riccardi, D., <i>et al.</i> , "Cloning and Functional Expression of a Rat Kidney Extracellular Calcium/Polyvalent Cation-Sensing Receptor," <i>Proc. Natl. Acad. Sci. USA</i> 92:131-135 (1995).
AV	Zaugg, W.S., <i>et al.</i> , "Increased Seawater Survival And Contribution To The Fishery of Chinook Salmon (<i>Oncorhynchus Tshawytscha</i>) By Supplemental Dietary Salt," <i>Aquaculture</i> , 32: 183-188 (1983).
AW	Shaw, H.M., <i>et al.</i> , "Effect of Dietary Sodium Chloride on Growth of Atlantic Salmon (<i>Salmo salar</i>)," <i>J. Fish. Res. Board Can.</i> , 32(10) 1813-1819 (1975).
AX	MacLeod, M.G., "Relationships Between Dietary Sodium Chloride, Food Intake and Food Conversion in the Rainbow Trout," <i>J. Fish Biol.</i> , 13: 73-78 (1978).
AY	Stickney, R. R., "Nonconservative Aspects of Water Quality; Conservative Aspects of Water Quality and Physical Aspects of the Culture Environment; and Feed, Nutrition, and Growth. (Chapters 4, 5, 6)." In "Principles of Aquaculture, (John Wiley & Sons, Inc.), pp. 146-351 (1994).
AZ	Folmar, Leroy C. and Dickhoff, Walton W., "The Parr-Smolt Transformation (Smoltification) And Seawater Adaptation In Salmonids," <i>Aquaculture</i> , 21: 1-37 (1980).
AR2	Williams, S., <i>et al.</i> , "A comparison of underyearling growth and smoltification between hatchery reared Maine landlocked Atlantic salmon, <i>Salmo salar</i> , and a commercially available strain of Norwegian <i>Salmo salar</i> ." <i>World Aquaculture Association Book of Abstracts</i> , p. 584(1998).
AS2	Brown, E.M., <i>et al.</i> , "A comparison of the effects of divalent and trivalent cations on parathyroid hormones release," <i>Endocrinol.</i> , 127:1064-1071 (1990).

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AT2	Ward, P.T. et al., "Disulfide Bonds in the Extracellular Calcium-polyvalent Cation-sensing Receptor Correlate with Dimer Formation and its Response to Divalent Cations in Vitro," <i>Am Soc. Biochem. Mol. Bio.</i> , 272:23; 14478-14483 (1998).
AU2	Forsberg, James A., et al., "Survival and Growth of Red Drum <i>Sciaenops ocellatus</i> in Saline Groundwaters of West Texas, USA," <i>Journal of the World Aquaculture Society</i> , 27(4): 462-474 (1996).
AV2	Garrett, J.E., et al., "Molecular Cloning and Functional Expression of Human Parathyroid Calcium Receptor cDNAs," <i>The Journal of Biological Chemistry</i> , 270(21):12919-12925 (1995).
AW2	Brown, E.M., et al., "Cloning and Characterization of an Extracellular Ca ²⁺ -Sensing Receptor from Bovine Parathyroid," <i>Nature</i> , 366:575-580 (1993).
AX2	Grau, E.G., et al., "Lunar phasing of the thyroxin surge preparatory to seaward migration of salmonid fish," <i>Science</i> 211(4482): 607-609 (1981).
AY2	Hedemann, L., et al., "The Familial Magnesium-losing Kidney," <i>Acta Med Scand</i> 219(1):133-6 (1986).
AZ2	Young, B., et al., "Smoltification and seawater adaptation in coho salmon (<i>Oncorhynchus kisutch</i>): plasma prolactin, growth hormone thyroid hormones and cortisol," <i>Gen. Comp. Endocrinology</i> , 74: 335-345 (1989).
AR3	Zaugg, W.S., et al., "Changes in Gill adenosine-triphosphatase activity associated with parr-smolt transformation in steelhead trout, coho and spring chinook salmon," <i>J. Fish. Res. Bd. Can.</i> , 29(2): 167-171 (1972).
AS3	Holmes, W. N., et al., "The Body Compartments and the Distribution of Electrolytes," <i>Fish Physiology</i> , 1: 1-88 (1969).
AT3	Clarke, W.C., et al., "A seawater challenge test to measure smolting in juvenile salmon." <i>Fisheries and Marine Service Research Dir. Tech. Report</i> 705, Ottawa (1977).
AU3	Preston, Gregory M., "Polymerase Chain Reaction with Degenerate Oligonucleotide Primers to Clone Gene Family Members," In <i>Methods in Molecular Biology</i> , Vol. 58: <i>Basic DNA and RNA Protocols</i> , A. Harwood, eds. (NJ: Humana Press Inc.) Chapter 36,pp. 303-312 (1993).
AV3	Usher, M.L., et al., "Intestinal Water Transport in Juvenile Atlantic Salmon (<i>Salmo Salar L.</i>) During Smolting and Following Transfer to Seawater," <i>Comp. Biochem. Physiol.</i> , 100A(4): 813-818 (1991).

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AW3	Salman, N.A., and Eddy, F.B., "Kidney Function in Response to Salt Feeding in Rainbow Trout (<i>Salmo Gairdneri Richardson</i>)," <i>Comp. Biochem. Physiol.</i> , 89A(4): 535-539 (1988).
AX3	Nilssen, K.J., et al., "Summer osmoregulatory capacity of the world's northermost living salmonid," <i>Am. J. Physiol.</i> , 272: R743-R749 (1997).
AY3	Siner, J., "Cloning of an Aquaporin Homologue Present in Water Channel Containing Endosomes of Toad Urinary Bladder," <i>Am. J. Physiol.</i> 270:C372-C381 (1996)
AZ3	Targovnik, J.H., et al., "Regulation of Parathyroid Hormone Secretion <i>in Vitro</i> : Quantitative Aspects of Calcium and Magnesium Ion Control," <i>Endocrinology</i> 88:1477-1482 (1971)
AR4	Taufield, P.A., et al., "Hypocalciuria in Preeclampsia," <i>N Engl J Med</i> 316(12):715-718 (1987)
AS4	Yamagami, K., et al., "Molecular and Cellular Basis of Formation, Hardening, and Breakdown of the Egg Envelope in Fish," <i>International Review of Cytology</i> , 136:51-92 (1992)
AT4	Spellman, P.T., et al., "Comprehensive Identification of Cell Cycle-regulated Genes of the Yeast <i>Saccharomyces cerevisiae</i> by Microarray Hybridization," <i>Molecular Biology of the Cell</i> , 9: 3273-3297 (1998).
AU4	Smith, L.C., "Anatomy and Special Physiology of Salmonids." In <i>Fish Medicine</i> ", M.K. Stoskopf, eds. (WB Saunders), Chapter 31: 321-327 (1993).
AV4	Guo, L., et al., "extracellular Ca ²⁺ Increases Cytosolic Free Ca ²⁺ in Freshly Isolated Rat Odontoblasts," <i>J. Bone Miner Res.</i> , 14: 1357-1366 (1999).
AW4	Zadunaisky, J.A., et al., "Osmolarity and Cell Volume Changes of Chloride Cells: The Nature of the Rapid Signal for Adaptation to Salinities of <i>Fundulus Heteroclitus</i> ," <i>Bull. MDI Biol. Lab.</i> , 32:152-156 (1992).
AX4	Cole, et al., "Isolation and Characterization of Pleurocidin, an Antimicrobial Peptide in the Skin Secretions of Winter Flounder," <i>J. Biol. Chem.</i> 272:12008-12013 (1997).
AY4	Forster, R. P., et al., "Formation of excretory products," Chapter 5 of Fish Physiology, Academic Press, New York, NY, pages 313-345 (1969).

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AZ4	Elger, E.B. <i>et al.</i> , "Adaption of renal function to hypotonic medium in winter flounder," <i>J. Comp. Physio.</i> B157:21-30 (1987).
AR5	Bai, M., <i>et al.</i> , "Expression and characterization of inactivating and activating mutations in human Ca ²⁺ Sensing Receptor," <i>J. Biol. Chem.</i> , 32:19537-19545 (1996).
AS5	Evans, D.H., "Osmotic and Ionic Regulation," Chapter 11 in <i>The Physiology of Fishes</i> , (CRC Press, Boca Raton, FL) pp. 315-341 (1993).
AT5	Prunet, P., <i>et al.</i> , "Effects of growth hormone on gill chloride cells in juvenile Atlantic salmon (Salmo salar)," <i>Am. J. Physiol.</i> , 266: R850-R857 (1994).
AU5	Naito, T. <i>et al.</i> "Putative pheromone receptors related to the Ca ²⁺ -sensing receptor in Fugu," <i>Proc. Natl. Acad. Sci.</i> , 95:5178-5181 (April 1998).
AV5	Hew, C.L., "Antifreeze Protein Gene Transfer in Atlantic Salmon, <i>Molecular Marine Biology and Biotech.</i> , 1(4/5): 309-317 (1992).
AW5	Ryba, N.J., <i>et al.</i> , "A New Multigene Family of Putative Pheromone Receptors," <i>Neuron</i> , 19(2):371-379 (1997).
AX5	Yamaguchi, Toru, <i>et al.</i> , "G Protein-Coupled Extracellular Ca ²⁺ (Ca ^{2+o})-Sensing Receptor (CaR): Roles in Cell Signaling and Control of Diverse Cellular Functions." In <i>Advances in Pharmacology, Hormones and Signaling</i> , Bert w. O'Malley, <i>et al.</i> , eds. (Academic Press) 48: 209-253 (2000).
AY5	Zaidi, M., <i>et al.</i> , "Emerging insights into the role of calcium ions in osteoclast regulation," <i>J. Bone Miner Res.</i> , 14: 669-674 (1999).
AZ5	Mykles, Donald L., "Proteolytic Processes Underlying Molt-Induced Claw Muscle Atrophy in Decapod Crustaceans." <i>Amer. Zool.</i> , 39: 541-551 (1999).
AR6	Borgatti, A.R., <i>et al.</i> , "Gill (NA+K+) ATPase involvement and regulation during salmonid adaptation to salt water," <i>Comp. Biochem. Physiol.</i> 102: 637-643 (1992).
AS6	Frenkel, Y., <i>et al.</i> , "Hypocalciuria of Preeclampsia Is Independent of Parathyroid Hormone Level," <i>Obstetrics & Gynecology</i> , 77(5):689-691 (1991).

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AT6	Kawamura, T., and Yamashira, S., "Chemical Sensitivity of Lateral Line Organs in the Goby. <i>Gobus Giurinus</i> ," <i>Comp. Biochem. Physiol.</i> , 72A: 253-257 (1981).
AU6	Fauci, A.S., <i>et al.</i> , "Cardinal Manifestations and Presentation of Diseases," <i>Principles of Internal Medicine</i> , 14 th Edition:p. 260 (1998).
AV6	Stahl, Christopher J., <i>et al.</i> , "Optimization of Dissolved Solids for the Intensive Culture of Juvenile Red Drum <i>Sciaenops ocellatus</i> ," <i>Journal Of the World Aquaculture Society</i> , 26(3): 323-326 (1995).
AW6	Forsberg, James A., and Neill, William H., "Saline Groundwater As An Aquaculture Medium: Physiological Studies On The Red Drum, <i>Sciaenops ocellatus</i> ," <i>Environmental Biology of Fishes.</i> , 49: 119-128 (1997).
AX6	Xu, B., <i>et al.</i> , "Osmoregulatory Actions of Growth Hormone In Juvenile Tilapia (<i>Oreochromis niloticus</i>)," <i>Fish Physiology and Biochemistry</i> , 17: 295-301 (1997).
AY6	Rydevik, Magnus, <i>et al.</i> , "Plasma Growth Hormone Levels Increase During Seawater Exposure of Sexually Mature Atlantic Salmon Parr (<i>Salmo salar L.</i>)," <i>General and Comparative Endocrinology</i> , 80: 9-15 (1990).
AZ6	Walton, M. J., <i>et al.</i> , "The effects of dietary tryptophan levels on growth and metabolism of rainbow trout (<i>Salmo gairdneri</i>)," <i>The British Journal of Nutrition</i> 51: 279-287 (1984).
AR7	Veldhuis, J. D., <i>et al.</i> , "Divergent Influences of Calcium Ions on Releasing Factor-Stimulated Anterior Pituitary Hormone Secretion in Normal Man," <i>Journal of Clinical Endocrinology and Metabolism</i> , 59(1): 56-61. (1984).
AS7	Gamba, G., <i>et al.</i> , "Primary Structure and Functional Expression of a cDNA Encoding the Thiazide-Sensitive, Electroneutral Sodium-Chloride Cotransporter, <i>Proc. Natl. Acad. Sci.</i> 90:2749-2753 (1993)
AT7	Gardner, W.D., <i>et al.</i> , "Genitourinary System." In <i>Structure of the Human Body</i> , (W.B. Saunders Company) pp. 365-366 (1967).
AU7	El-Mowafi, A.F.A., <i>et al.</i> , "Magnesium requirement of Atlantic salmon (<i>Salmo salar L.</i>) Parr in seawater-treated fresh water," <i>Aquaculture Nutrition</i> , 4(1) 31-38(1998).
AV7	Conigrave, A.D., <i>et al.</i> , "L-Amino acid sensing by the extracellular Ca ²⁺ -sensing receptor." <i>Proc Natl Acad Sci</i> , 97(9) 4419-4819 (2000).

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AW7	Ogino, Chinkichi, and Chiou, Jiing Y., "Mineral Requirements in Fish-II Magnesium Requirement of Carp," <i>Bulletin of the Japanese Society of Scientific Fisheries</i> , 42(1): 71-75 (1976).
AX7	Raloff, J., "Downtown Fisheries? Advances May Make Fish Farming a Healthy Prospect, Even For Inner Cities," <i>Science News</i> , 157(20): 314-316 (2000).
AY7	Folmar, L.C. <i>et al.</i> , "Evaluation of some physiological parameters as predictive indices of smoltification," <i>Aquaculture</i> 23: 309-324 (1981).
AZ7	Alberts, B., <i>et al.</i> , "Cell Junctions, Cell Adhesion, and the Extracellular Matrix." In <i>Molecular Biology of The Cell</i> , 3 rd . ed., (Garland Publishing), pp. 950-954 (1994).
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AS8	Brown, E. M., <i>et al.</i> , "Neomycin Mimics the Effects of High Extracellular Calcium Concentrations on Parathyroid Function in Dispersed Bovine Parathyroid Cells," <i>Endocrinology</i> , 128(6):3047-3054 (1991).
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PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION November 15, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 2213.1004-012	APPLICATION NO. 10/626,115
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AY19	Japan Economic Newswire, new "water" allows freshwater, saltwater fish to coexist, Kyoto News Service (Aug. 1994).	
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